TABLE OF CONTENT

|  |  |
| --- | --- |
| 1. | Project Definition (Purpose, Scope, Identification of Need) |
| 2. | Functional and Non-Functional Requirements |
| 3. | User Characteristics |
| 4. | Use case diagram |
| 5. | Activity diagram |
| 6. | Data Dictionary |
| 7. | Template Integration |
| 8. | Login and Registration with State Management |

1. **Introduction**

Based on the document and the initial requirements here is a comprehensive project definition:

1.1 Project Overview:-

The Community Management System aims to develop an innovative and efficient online platform for managing various activities and services within the community. The system will digitize management processes, making it easier for committee Major, Committee Members, and Members to collaborate and manage services such as Manage announcement like Events and Scholarships, Manage Donation and Hall booking.

* 1. Project Purpose:-

The Purpose of the Community Management System is to manage and coordinate various activities and services offered by the community.

* 1. Project Scope:-

The scope of the Community Management system is within the particular state(Gujarat).

* 1. Identification of needs:-

Previously all the datas were in physical form(on paper). Which makes it difficult to maintain and manage for longer period. As it can be lost or could tear off . So community management System will help to digitalize such data and to preserve it for decades.

1. **System Specific Requirement:-**

**2.1. Functional Requirement:-**

Functional requirements define the Fundamental action that the system must perform.

**Module 1: Manage User:**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will Provide the Following facility to Member:   * Register | Registration |
| FR2 | This module will Provide the Following facility to Users:   * Forget Password * Login * Change Password | Sendotp  Login  Handle\_recovery |
| FR3 | This module will provide the Following facility to the admin:   * Add Committee major * Active/De-active Committee major | Manage\_committee\_major |
| FR4 | This module will Provide the Following facility to Member:   * Request for committee member | committee\_member\_request |
| FR5 | This module will Provide the Following facility to committee major:   * Approve/decline commiittee Member request | committee\_member\_request |
| FR6 | This module will Provide the Following facility to committee major/Committee Member:   * Generate Reports | Generate\_reports |

**Module 2: Manage announcement type:**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will Provide the Following facility to the Committee major:   * Create announcement type. * Modify announcement type. * Delete announcement type. | Manage\_announcement\_type |
| FR2 | This module will Provide the Following facility to the Committee major/committee member/ Members:   * View announcement type. | Announcement |

**Module 3: Manage announcement:**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will Provide the Following facility to the Committee major/committee member:   * Create announcement * Modify announcement. * Delete announcement. | Manage\_announcement |
| FR2 | This module will Provide the Following facility to the Committee major/committee member/ Members:   * Register for particular announcement * View announcement | Announcement |

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Members:   * Give donation | Donation |
| FR2 | This module will provide the Following facility to the committee member/committee major/member:   * View Donation. | View\_Donation |

**Module 4: Manage Donation:**

**Module 5: Manage Hall**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Committee Members/committee major:   * Add Hall . * Update Hall * Active/deactive hall | Manage\_Hall |
| FR2 | This module will provide the following facilities to Committee Member/Committee major/member:   * View hall | View\_Hall |

**Module 6: Manage Hall Booking**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Member:   * Book Hall . * Update Hall booking * Delete hall booking | Manage\_Hall\_booking |
| FR2 | This module will provide the following facilities to Committee Member/Committee major/member:   * View hall booking | View\_Hall\_booking |
| FR3 | This module will provide the following facilities to Committee Member/Committee major:   * Approve/decline hall booking | View\_hall\_booking |

**Module 7: Manage Profile**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Committee Major/Member/Committee Member:   * Add details * Update details * Delete details * View details | Manage\_Profile |

**Module 8: Manage Payment**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Member:   * Make payment * View payment | Manage\_hall\_booking |
| FR2 | This module will provide the Following facility to the committee Member/committee Major:   * View payment | Manage\_hall\_booking |

* 1. **Non-Functional Requirement:-**

|  |  |  |
| --- | --- | --- |
| **NFRN** | **DESCRIPTION** | **COMMENTS** |
| NFR1 | The system will be using Password-Protected. Users will have to enter an ID/Password to access the application and we also use md5 for the authenticated. | Security |
| NFR2 | The system will be accessed 24\*7 with a proper internet connection. | Availability |
| NFR3 | The application will be user-friendly and easy to operate. The functions will be easily understandable effective design and easy navigation. | Usability |
| NFR4 | The application can be easily tested by providing various inputs to check the models. | Testability |

1. **User Characteristics:-**

**­­­­­­Admin**

* + - **Add committee Major.**
    - **Active/De-active Major.**

**Committee Major**

* **Approve/Decline Committee Member request**
* **Create, Modify, View and Delete announcement type.**
* **Create, Modify , View and Delete announcements**
* **Register for Announcement.**
* **View Donation.**
* **Add, Update ,View and active/de-active Hall.**
* **Approve/Decline and View Hall Booking.**
* **Manage Profile.**
* **view payment.**

**Committee Member:-**

* **Create, Modify , View and Delete announcements**
* **Register for Announcement.**
* **View Donation.**
* **Add, Update and active/de-active Hall.**
* **Approve/Decline , View Hall Booking.**
* **Manage Profile.**
* **view Payment.**

**Member:-**

* + **Register themself.**
  + **Request to Committee Memebr.**
  + **Give Donation.**
  + **view Donation.**
  + **Book the hall and update and delete it.**
  + **View Hall Booking.**
  + **Manage Profile.**
  + **Make and view Payment.**

1. **Data Dictionary:-**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | U\_Id | Int | - | Primary key | Uniquely Identifies the committee member |
| 2 | Name | varchar | 10 | Not null | Defines the name |
| 3 | Username | varchar | 10 | Not null | Defines the username |
| 4 | Gender | Char | - | Not null | Defines the gender |
| 5 | Dob | Date | - | Not null | Defines the date of birth |
| 6 | c\_ no | Bigint | 10 | Not null | Defines the contact no |
| 7 | Address | Varchar | 30 | Not null | Defines the address |
| 8 | Email | Varchar | 20 | Not null | Defines the Email |
| 9 | Password | Varchar | 15 | Not null | Defines the Password |
| 10 | Caste\_ certificate | Varchar | 255 | Not null | Defines the Caste certificate |
| 11 | Status | Bit | - | Not null | Defines the member status is active or not |
| 12 | Role | varchar | 20 | Not Null | Defines the role of the user |

**Table Name: User**

**Table Name: Announcement Type**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | at\_ id | Int | - | Primary key | Uniquely Identifies the Event |
| 2 | at\_ name | Varchar | 20 | Not null | Defines the name of the Event |
| 3 | Status | Bit | - | Not null | Defines whether the status is active or not |

**Table Name: Announcement**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | | **Size** | **Constraints** | **Description** |
| 1 | a\_ id | Int | | - | Primary key | Uniquely Identifies the Event |
| 2 | a\_ title | Varchar | | 20 | Not null | Defines the name of the Event |
| 3 | Status | Bit | | - | Not null | Defines whether the status is active or not |
| 4 | at\_id | int | | - | Foreign key | Defines the type of complaint Referenced from Tbl\_announcement\_type(at\_id ) |
| 5 | description | varchar | | 20 | Not null | Defines the description of the Event |
| 6 | Declaration\_date | date | | - | Not null | Define the Declaration date of the Event |
| 7 | From\_date | date | | - | Not null | Define the from date of the Event |
| 8 | To\_date | date | | - | Not null | Define the to date of the Event |
| 9 | Participation\_form | | varchar | 255 | Not null | Define the participation form of the Event |

**Table Name: Announcement participation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | ap\_ id | Int | - | Primary key | Uniquely Identifies the Event |
| 2 | a\_ id | int | - | Foreign Key | Defines the name of the Event |
| 3 | U\_id | int | - | Foreign Key | Defines whether the status is active or not |
| 4 | Participation\_form | varchar | 255 | Foreign key | Defines the type of Hall booking Referenced from Tbl\_announcement(participation\_form) |
| 5 | Submittion\_date | date | - | Not null | Defines the submission date of the event |

**Table Name: Hall\_ master**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr. No. | Field name | Data type | Size | Constraints | Description |
| 1 | Hall\_ id | int | - | Primary key | Uniquely Identifies the Hall booking master |
| 2 | Name | Varchar | 20 | Not null | Defines the name of the Hall booking master |
| 3 | Capacity | Int | - | Not null | Defines the capacity of the Hall booking master |
| 4 | Image | Varchar | 255 | Not null | Define the image of the hall booking master |
| 5 | Address | Varchar | - | Not null | Define the Address of the hall booking master |
| 6 | Rent | varchar | 20 | Not null | Define the rent of the hall booking master |
| 7 | Status | varchar | 20 | Not null | Define the Status of the hall booking master |

**Table Name: Hall \_booking**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | H\_ id | Int | - | Primary key | Uniquely Identifies the Hall booking |
| 2 | U\_ Id | int | - | Foreign key | Defines the type of complaint Referenced from Tbl\_User(U\_id ) |
| 3 | Hall\_ id | Int | - | Foreign key | Defines the type of Hall booking Referenced from Tbl\_hall\_master(Hall\_id ) |
| 4 | Request\_status | bit | - | Not null | Defines whether the status is active or not |
| 5 | Start\_Date\_Time | DateTime | - | Not null | Defines the start time of the Hall Booking |
| 6 | End\_ Date\_Time | DateTime | - | Not null | Defines the End time of the Hall Booking |
| 7 | Request\_date | date | - | Not null | Defines the request date of the Hall Booking |
| 8 | Transaction\_id | varchar | 20 | Not null | Defines the Transaction id of the hall Booking |
| 9 | Payment\_date | date | - | Not null | Defines the payment date of the Hall Booking |

**Table Name: Donation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | D\_ id | Int | - | Primary key | Uniquely Identifies the Donation |
| 2 | Amount | Float | - | Not null | Defines the Amount for Donation |
| 3 | Date | Date | - | Not null | Defines the Date for Donation |
| 4 | Status | varchar | 255 | Not null | Defines whether the status is active or not |
| 5 | U\_Id | int | - | Foreign Key | Defines the type of user Referenced from Tbl\_User(U\_id ) |
| 6 | Transaction\_id | Varchar | - |  |  |

**Table Name: Scholarship**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | S\_ id | Int | - | Primary Key | Uniquely Identifies the Scholarship id |
| 2 | U\_ Id | Int | - | Foreign Key | Defines the type of complaint Referenced from Tbl\_User(U\_id |
| 3 | a\_id | int | - |  |  |
| 4 | Adhar\_ card \_image | varchar | - | Not null | Define the Adhar card no |
| 5 | status | Varchar | - | Not null | Defines whether the status is active or not |
| 6 | School/university name | Varchar | 30 | Not null | Define the School/College Name |
| 7 | Previous\_year\_marksheet | Float | - | Not null | Define the SSC Marksheet |
| 8 | Current\_year\_std | Varchar | 30 | Not null | Define the Course Name |
| 9 | Pan\_card\_no\_father | varchar | 11 | Not null | Define the Pan Card of Father |
| 10 | Pan\_card\_no\_mother | Varchar | 11 | Not null | Define the Pan card of Mother |
| 11 | Occupation\_father | Varchar | 20 | Not null | Define the Occupation of Father |
| 12 | Occupation\_mother | Varchar | 20 | Not null | Define the Occupation of Mother |
| 13 | Father\_income | Float | - | Not null | Define the Father's Income |
| 14 | Mother\_income | Float | - | Not null | Define the Mother's Income |
| 15 | Bank\_name | Varchar | 30 | Not null | Define the Bank Name |
| 16 | Bank\_IFSC\_code | Varchar | 11 | Not null | Define the Bank IFSC code |
| 17 | Account\_no | Big int | - | Not null | Define the Account no |
| 18 | Income\_certificate | Varchar | 255 | Not null | Define the Income certificate |
| 19 | Fees\_receipt | Varchar | 255 | Not null | Define the Fees receipt |